AMENDED CLAIMS

1. (original) Element with high mechanical resistance and high vibration absorption, characterized in that it comprises at least one internal core composed of at least one first material having predominantly high mechanical characteristics, united simply through chemical bonding, to at least a second material with predominantly highly elastic characteristics.

2. (original) Element according to claim 1, characterized in that said first and second materials are bonded without the use of adhesives.

3. (currently amended) Element according to ~~one or more of the preceding claims~~ claim 1 characterized in that said first material is composed of a thermoplastic resin in which a plurality of natural and/or synthetic fibers are sunk.

4. (currently amended) Element according to ~~one or more of the preceding claims~~ claim 1 characterized in that said synthetic fibers are composed of glass fiber.

5. (currently amended) Element according to ~~one or more of the preceding claims~~ claim 1 characterized in that said second material is composed of an elastomeric polymer.

6. (currently amended) Element according to ~~one or more of the preceding claims~~ claim 1 characterized in that said thermoplastic resin is an engineered polyurethane thermoplastic polymer, industrially recognised under the name ETPU (engineering thermoplastic polyurethane).

7. (currently amended) Element according to ~~one or more of the preceding claims~~ claim 1 characterized in that said second material is composed of thermoplastic polyurethane.

8. (currently amended) Element according to ~~one or more of the preceding claims~~ claim 1 characterized in that the core is covered with a layer in a third material composed of an elastomeric polymer.

9. (currently amended) Element according to ~~one or more of the preceding claims~~ claim 1 characterized in that said core comprises at least two elongated elements created using pultrusion.

10. (currently amended) Element according to ~~one or more of the preceding claims~~ claim 1 characterized in that said elongated elements are rod-shaped or disk-shaped.

11. (currently amended) Element according to ~~one or more of the preceding claims~~ claim 1 characterized in that a bearing made of said second material is inserted between said elongated elements.

12. (currently amended) Element according to ~~one or more of the preceding claims~~ claim 1 characterized in that said rod-shaped elements have at least one flat surface and one curved surface, said bearing being inserted between said flat surfaces of said adjacent rod-shaped elements.

13. (original) Method for implementing an element with high mechanical resistance and high vibration absorption, characterized in that it comprises the automatic union through chemical bonding of a first material having predominantly high mechanical characteristics, with at least a second material having predominantly highly elastic characteristics, in order to form a core to be coated with at least one third material.

14. (currently amended) Method according to ~~the preceding claim~~ claim 13 characterized in fact that the union between the first and second material occurs without the use of an adhesive, but with the application of heat at an established temperature.

15. (currently amended) Method according to ~~one or more of the preceding claims~~ claim 13 characterized in that said first material is composed of a thermoplastic resin in which a plurality of natural and/or synthetic fibers are sunk,

16. (currently amended) Method according to ~~one or more of the preceding claims~~ claim 13 characterized in that said synthetic fibers are composed of glass fiber.

17. (currently amended) Method according to ~~one or more of the preceding claims~~ claim 13 characterized in that said second material is composed of thermoplastic polyurethane.

18. (currently amended) Method according to ~~one or more of the preceding claims~~ claim 13 characterized in that said thermoplastic resin is an engineered polyurethane thermoplastic polymer, industrially recognised under the name ETPU (engineering thermoplastic polyurethane)

19. (currently amended) Method according to ~~one or more of the preceding claims~~ claim 13 characterized in that second material is composed of an elastomeric polymer, preferably of polyurethane type.

20. (currently amended) Method according to ~~one or more of the preceding claims~~ claim 13 characterized in that said third material is composed of an elastomeric polymer.

21. (currently amended) Method according to ~~one or more of the preceding claims~~ claim 13 characterized in that said method

includes at least one stage in which said first material is obtained through pultrusion.

22. (currently amended) Method according to ~~one or more of the preceding claims~~ claim 13 characterized in that method includes at least one coextrusion stage at an established temperature to unite said first material with said second material.

23. (currently amended) Method according to ~~one or more of the preceding claims~~ claim 13 characterized in that said method includes a thermoforming stage to model said third material into an ergonomical shape.

24. Cancelled.

This preliminary amendment is submitted just to reduce claim charges.

Respectfully submitted,
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